D I G I T A L   P A T H O L O G Y

APERIO GT 450
S L I D E   S C A N N E R

BROCHURE

Embrace your Future Confidently

Partner with a trusted leader in Digital Pathology

For clinical use in the US under temporary FDA COVID-19 Enforcement Discretion Only.

*International patent families including patent applications and granted patents.

More than 30 Patents SMARTER*

Advancing Cancer Diagnostics Improving Lives

Leica
### BIOSYSTEMS

Fast scans No shipping Confidence

Next generation imaging for Technicians Auto QC Fast-paced

First-time scan success Be more productive
Be on time

Cross-training Easy to use Continuous loading

Designed to deliver rapid results with confidence for histotechnicians.

"The Aperio GT 450 is very easy to use and a companion in the lab."

– Brittney Hosac - Lab Assistant, NeoGenomics

Directly load racks from coverslipper to scanner.

HistoCore
SPECTRA CV

Leica

- Assign priority cases.
- Automated image quality check and slide calibration during each scan.
- No-touch continuous rack loading during scanning.
- 450 slide capacity packed into small size.
- Excellent image quality using Leica optics.

32 SEC — 32 sec scan speed at 40x*.

81 PER HR — 81 slides per hour at 40x*.

120,000 PER YEAR — Scan 120,000 slides per year operating the Aperio GT 450 for around 5 hours/day*.

*15mm x 15mm scan area @ 40x; assumes 5 hr. scan time per day for 300 work days per year

Assign priority cases for fast delivery of priority or routine cases directly to the Pathologist.

Aperio GT 450 open face design allows you to continuously load racks while scanning is in progress to maximize productivity.
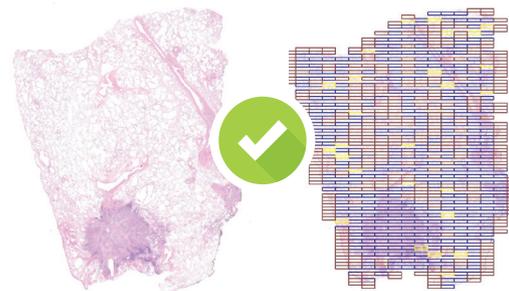
Featuring automatic image quality control, so you have image quality confidence before your scans reach the Pathologist.
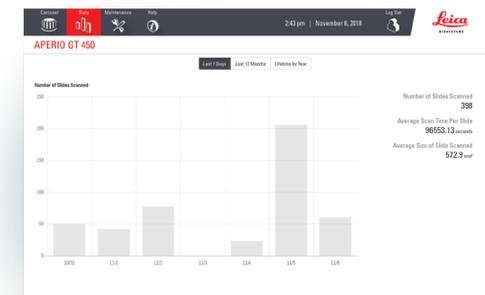
Stats page allows you to view slides scanned/day/month/year, average scan area and average scan speed.

Login controls **Security** Store and forward Easy setup

High speed data transfer DICOM or SVS compatible

Next generation imaging for IT Professionals Flexibility

Large storage Encryption

Designed to deliver fast, secure, and scalable IT architecture for IT Professionals.
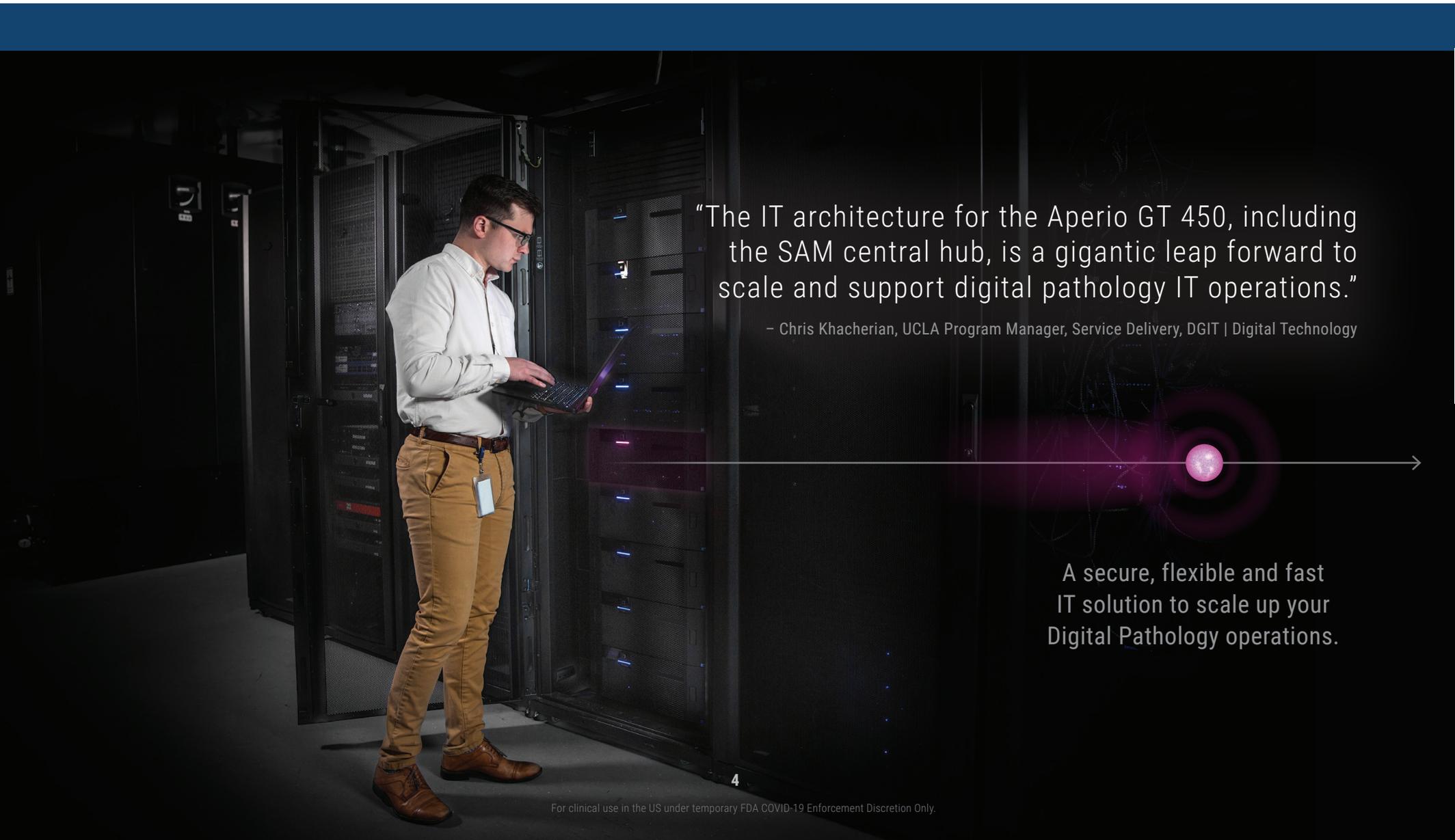
"The IT architecture for the Aperio GT 450, including the SAM central hub, is a gigantic leap forward to scale and support digital pathology IT operations."

– Chris Khacherian, UCLA Program Manager, Service Delivery, DGIT | Digital Technology

A secure, flexible and fast IT solution to scale up your Digital Pathology operations.
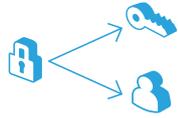
Cyber security including encryption and login controls.

HL7 and PACS ready, for **integration** into LIS, LIMS or PACS.

Securely scan slides at a **spoke** location and store images at a **Hub** location for all sites to log in and view images.

**Store and forward:** store images temporarily then transfer during low IT traffic times.

Set up user-specific **log in** for each Aperio GT 450.

A centralized Scanner Admin Manager (SAM) will allow IT professionals to scale up Digital Pathology operations securely and efficiently.

No more workstations needed. SAM server and software allow IT managers to set up and monitor GT 450 scanners via the network, including dashboard status views, PIN controls and log out times.

IT OFFICE
SAM APPLICATIONS SOFTWARE

IT ROOM
SAM SERVER

LAB

GT 450   GT 450   GT 450   GT 450
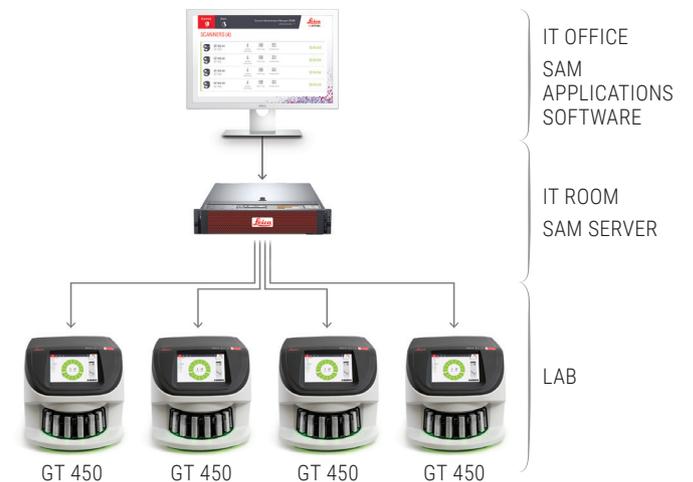
High resolution

Limited rescans Image quality Confident Diagnosis

Faster turnaround time Integrated work-flow Craftsmanship State-of-the-art Fast viewing speeds

Next generation imaging for Pathologists Peace of mind Contrast

Resolution Precision Ease of use DICOM

Designed to rapidly deliver images with excellent image quality for Pathologists.

"I am really impressed with the sharpness and contrast of the images. It is definitely next-generation image quality."

– W. Dean Wallace M.D., Professor, Pathology and Laboratory Medicine, David Geffen School of Medicine at UCLA

Aperio GT 450 utilizes a high performance 40x objective manufactured by Leica, the company that has engineered world class optics since 1841.

Aperio GT 450 illuminates tissue from both sides of the slide resulting in a 99.5% accurate tissue finder that recognizes faintly-stained tissue while excluding:

> Pen marks
> Stain residue
> Scratches
> Dust

View and share images at multiple locations.
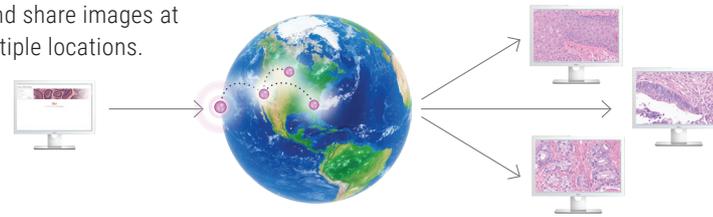
Aperio GT 450 applications:

> Remote diagnosis
> Tumor Boards
> Case archiving

"Good cellular details at high power and good focus throughout the tissue." – Sally Agersborg, MD, PhD, Medical Director, NeoGenomics Laboratories, Inc.

Access and organize your cases with Aperio eSlide Manager integrated into an LIS. View your case images with Aperio Viewer.

Aperio Viewer
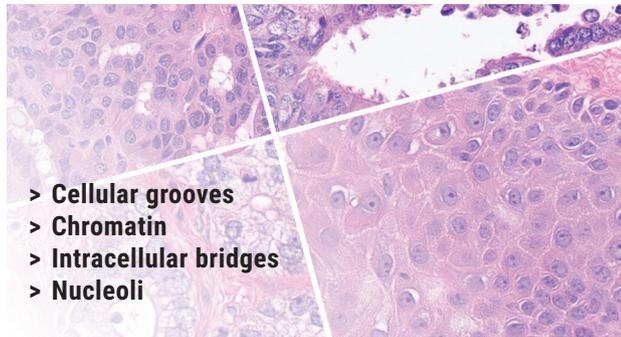
Integrated LIS

> **Cellular grooves**
> **Chromatin**
> **Intracellular bridges**
> **Nucleoli**
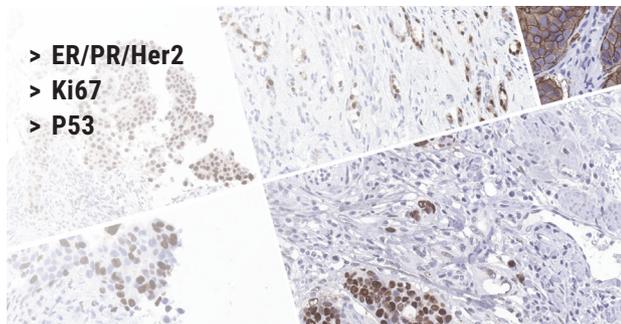
> **ER/PR/Her2**
> **Ki67**
> **P53**

> **Lung Cilia**
> **H Pylori**

Pathology Lab — Aperio GT 450s

IT Room — SAM server connected to multiple Aperio GT 450s. / DSR server stores images and runs eSlide manager.

IT Manager's Office — SAM applications software connected to SAM server to set up and monitor scanners.

Pathologist's Office — Aperio ImageScope / Integrated LIS / Aperio Viewing Station with calibrated monitor connected to DSR server.

"The Aperio GT 450 has demonstrated in a workflow study at our laboratories substantial increases in case throughput while dramatically reducing hands on time for our technicians, which frees up additional FTE capacity that we can operationally utilize to respond to increasing annual slide volumes."

– Julie Broccardo, Director of Anatomic Pathology Operations, NeoGenomics Laboratories, Inc.

Aperio GT 450 Summary of Specifications	
Maximum Slide Capacity	450
Rack capacity	15 racks of 30 slides, 15 racks of 20 slides
Racks compatible with Leica HistoCore SPECTRA Workstation	Yes
Continuous rack loading while scanning	Yes
Priority rack scanning	Yes
Magnification	40x
Resolution	0.26 µm/pixel at 40x
Scan speed (15mm x 15mm area at 40x)	32 sec
Sustained throughput (15mm x 15mm area at 40x)	81 slides/hr
Automated Image Quality Check	Yes
Slide sizes accepted	1x3
Field of View (FOV)	1mm
Bar code engines	1D and 2D symbology
Dimension	20.8" (52.83 cm) W x 28" (71.12 cm) L x 19.5" (49.53 cm) H
Weight	140 lbs (63.5 kg)

*Parts shown are each sold separately.

Part Number	Description
23GT450	Aperio GT 450 Scanner
23GT450SAM	Aperio GT450 Scanner Admin Manager (SAM) Server
23GT450SAMSW	Aperio GT450 Scanner Admin Manager (SAM) Applications Software
23Dell740XD21TB	Dell 740 XD image storage DSR 21 Terabytes
23Dell740XD42TB	Dell 740 XD image storage DSR 42 Terabytes
23Dell740XD85TB	Dell 740 XD image storage DSR 85 Terabytes
23Dell740XD138TB	Dell 740 XD image storage DSR 138 Terabytes
23VS100	Aperio viewing station (includes calibrated monitor, workstation, Aperio ImageScope viewer and optimized ICC file)

From the lab to the IT room, the Aperio GT 450 was designed for Histotechnicians, IT Professionals and Pathologists. Embrace your future confidently. Partner with a trusted leader in digital Pathology.

Learn more at: LeicaBiosystems.com/AperioGT450

LEICA BIOSYSTEMS IS AN INTERNATIONAL COMPANY WITH A STRONG NETWORK OF WORLDWIDE CUSTOMER SERVICES
For detailed contact information on your nearest sales office or distributor please visit our website: LeicaBiosystems.com

Leica Biosystems is a global leader in workflow solutions and automation. As the only company to own the workflow from biopsy to diagnosis, we are uniquely positioned to break down the barriers between each of these steps. Our mission of "Advancing Cancer Diagnostics, Improving Lives" is at the heart of our corporate culture. Our easy-to-use and consistently reliable offerings help improve workflow efficiency and diagnostic confidence. The company is represented in over 100 countries. It has manufacturing facilities in 9 countries, sales and service organizations in 19 countries, and an international network of dealers. The company is headquartered in Nussloch, Germany. Visit LeicaBiosystems.com for more information.